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Notice of Allowability	Application No.	Applicant(s)	
	10/676,985	CHATTERJEE ET AL.	
	Examiner	Art Unit	
	ANH PHUNG	2824	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ The drawings filed on 30 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>2/26/04</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input checked="" type="checkbox"/> Other <u>Search History</u> . |


ANH PHUNG
PRIMARY EXAMINER

DETAILED ACTION

1. In response to the U.S. Application Ser. No. 10/676,985 filed on September 30, 2003, claims **1-30** are pending in the application.

Information Disclosure Statement

2. This office acknowledges receipt of the following items from the Applicant:
Information Disclosure Statement (IDS) filed February 26, 2004.
Information disclosed and listed on PTO 1449 was considered.

Examiner's Statement of Reasons for Allowance

3. Claims **1-30** are allowed.
Hsu et al. (U.S. Pat. No. 6,690,604), Balamurugan et al. (U.S. Pat. No. 6,320,795), Blomgren et al. (U.S. Pat. No. 6,104,642) and Hwang et al. (U.S. Pat. No. 5,870,331) disclose a register file similar to that of the present application, but fail to teach:

“a device coupled to the driving signal trace and the local bit trace to intelligently charge and float the local bit trace, the intelligent charging and floating facilitated by determination of a selection of one of the data cells” as claimed in the independent claim **1**; or

“a first device coupled to the first driving signal trace and the first local bit trace and a second device coupled to the second driving signal trace and the second local bit trace, the first and second devices to intelligently charge and float the respective first and second local bit traces, the intelligent charging and floating facilitated by determination of a selection of one of the data cells in the plurality of data, cells; and

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global multiplexing logic coupled to the first and second local bit traces to facilitate provision of a selected data value of the address data cell on an output signal trace” as claimed in the independent claim **11**; or

“determining whether a set of data cells comprises a selected data cell; and conditionally electrically decoupling a driving signal trace from a local bit trace upon said determining, said local bit trace coupled to said set of data cells” as claimed in the independent claim **20**; or

“a first device coupled to the first driving signal trace and the first local bit trace and a second device coupled to the second driving signal trace and the second local bit trace, the first and second devices to intelligently charge and float the respective first and second local bit traces, the intelligent charging and floating facilitated by determination of a selection of one of the data cells in the plurality of data cells; and global multiplexing logic coupled to the first and second local bit traces to facilitate provision of a selected data value of the address data cell on an output signal trace; a memory configured to store data; and a bus coupled to the processor and memory to facilitate data exchange between the processor and memory” as claimed in the independent claim **23**.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comment on Statement of Reasons for Allowance”.

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD ELMS**, can be reached on **(571) 272-1869**. The fax phone number for the organization where this application or proceeding is assigned is **(703) 872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free).

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**ANH PHUNG
PRIMARY EXAMINER**